

Date: Sun, 3 Jul 94 13:35:24 PDT
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V94 #738
To: Info-Hams

Info-Hams Digest Sun, 3 Jul 94 Volume 94 : Issue 738

Today's Topics:

 ANS-184 BULLETINS
 DXCC Country List
 FCC
 IC229H
 Temp. Conversion Chart: F & C?

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
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Problems you can't solve otherwise to brian@ucsd.edu.

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(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 3 Jul 94 19:13:01 GMT
From: news-mail-gateway@ucsd.edu
Subject: ANS-184 BULLETINS
To: info-hams@ucsd.edu

SB SAT @ AMSAT \$ANS-184.01
FIELD DAY '94 A SUCCESS!

HR AMSAT NEWS SERVICE BULLETIN 184.01 FROM AMSAT HQ
SILVER SPRING, MD JULY 2, 1994
TO ALL RADIO AMATEURS BT
BID: \$ANS-184.01

'94 Field Day Operations Considered A Major Successs

Field Day '94, June 25-26th, proved once again that satelllite stations and
contacts are considered to be an important part of Field Day (FD) planning.
Although only a few reports have started to trickle in, it is clear by

listening to the downlink passbands that Field Day enthusiasts had more on their minds than making the one "perfunctory" contact to earn the 100 bonus points. They were on the "birds" to make points for their stations. The passbands on every OSCAR were jammed with stations calling "CQ FD." Below are some of the FD reports that have shown up on INTERNET and at AMSAT-NA HQ:

N6DD operated his FD station from his 29' long houseboat on the Colorado River 65 miles south-east of Las Vegas, NV. His yagi antennas were mounted atop his houseboat and were steered using the "armstrong" method. Although it was quite hot, about 120 degrees F (50 degrees C), and winds picking up right at AOS for some of the LEO OSCARs, N6DD was able to make 65 contacts with most of them coming from AO-10. N6DD says that he wished they had made more contacts but they were please with their satellite contacts in general. N6DD operated as class 2C NV. Next year he says that they will investigate an automatic antenna pointing system. Their station consisted of station setup KLM crossed yagis on VHF and UHF, a homebrew 2 element 10M beam on the elevation boom, a FT-736R + twin Mirages, and for 10M a Kenwood TS-130.

Field Day '94 for W0TWU was an adventure, he reports. Although he didn't expect to be operating with temperatures of 107 degrees F, it was, however, a good test to see if both the equipment and operators could survive! From Central Kansas they worked 298 stations on AO-10 and 301 stations on AO-13! They tried to work FO-20 but found they had a desense problem. Next year W0TWU says he plans to try Mode-S on FD.

N2NRD operated clase 1E from his back yard with his antennas mounted on a tripod to support his KLM-40CX & KLM-22C atenna combination. Although his "line-of-sight" was blocked at low elevations by his house, this caused only minor problems during N2NRD's FD effort. N2NRD's station equipment used: ICOM 271H/471H, KLM 40CX/22C, Kenpro 5400 antenna rotator combination, ICOM preamp, 70cm TE amp, Astron VS-50M power supply, Kenwood TS-830 and a 29MHz vertical/dipole HF antenna combination. N2NRD made over 250 contacts! One surprise of this FD was AO-10. N2NRD reports that AO-10 "was the best I have heard it in years. At apogee the signals were strong with very little fading. Perigee had AO-10 pass over-head at high elevations with very strong signals making for a good QSO run." N2NRD's plans for next year include operating the same sation setup but from a location that provieds an excellent view of horizon in all directions. Also, he plans to spend more time operating CW and get on the digital birds!

The FD satellite station at WM5U, the Lockheed Radio Club in Fort Worth, TX was part of a 2A NTX operation. Satellite availability was better than the operators of WM5U thought it would be. A new antenna setup provided them with a lot of technical problems which caused them to miss the first AO-13 window completely. The heat combined with a lack of operators made operating difficult on Saturday afternoon. But they managed a bit of a come back

over the remainder of the contest period. Results were a bit disappointing because they were striving to make atleast 100 QSOs. They came up a bit short with a total of 94 QSOs. WM5U made 33 CW contacts and 61 voice contacts using all the available OSCARS. Their station consisted of the following equipment: Yaesu FT-736R, a Kenwood TS-140S, Landwehr Pre-Amps, Mirage B-1016G & D-1010 power amplifiers, KLM 22C & 40CX (on a 15' Create Roof Tower) with a Yaesu G-5400B w/KC Tracker/Tuner, a DSP-12, and finally a 386SX-16 IBM PC. The operators doubt that they'll rank very well in the AMSAT competition this year but do note that it was fun anyway!

The above FD '94 reports are just a few of the summaries of from the stations that operated the OSCARS under FD conditions. But they indicate that a great deal of effort went into setting up and operating the OSCARS during FD '94. AMSAT congratulates all those who worked the birds during FD '94 and looks forward to seeing more hams on the birds in FD '95.

[The AMSAT News Service (ANS) would like to thank N6DD, W0TWU, and KG5OA for these FD '94 reports.]

/EX

SB SAT @ AMSAT \$ANS-184.02
HOUSTON AMSAT NET VIA SATELLITE

HR AMSAT NEWS SERVICE BULLETIN 184.02 FROM AMSAT HQ
SILVER SPRING, MD JULY 2, 1994
TO ALL RADIO AMATEURS BT
BID: \$ANS-184.02

Local Houston Area AMSAT Net Can Be Heard Throughout the North America

Houston AMSAT Net originates live from Houston, TX on Tuesdays nights at 10:00 PM Central Time on 147.100 and is carried Live on Galaxy 3, Transponder 17, 5.8Mhz Audio Subcarrier

ATTENTION Satellite Enthusiasts: Want more up to date information on what his happening in the satellite world and other on neat stuff? AMSAT News Service bulletins, Space News, NASA news, Hints & Tips on working satellites and much more is available every week on the Houston AMSAT Net.

The following repeater operators carry the net live or rebroadcast it at a more convenient time. If you like the net, let your repeater trustee know. They go through a lot of trouble to bring you our net so thank them. If your local repeater does not carry our net, ask the trustee if they would.

NETARC - New England
WA1PBJ 448.225 - 88.5 Sargents Pur, NH (White Mountains)
WA1PBJ 446.575 - 88.5 Boston, MA

KC1HF	448.225 - 88.5	Framingham, MA
WA1PBJ	442.000 + 88.5	Fitchburg, MA
K1MON	442.600 + 88.5	Portland, ME

Southern Wisconsin Repeater Group

N9KAN	443.400	Madison, WI
KD9UU	443.675	North Freedom, WI
AA9AD	53.090	Fort Atkinson, WI

Other Repeaters and Frequencies (Alphabetized by State then City)

NL7H	147.000		Anchorage, AK
KL7FZ	444.950		Anchorage, AK
WL7AML	439.250		Kodiak, AK Audio on ATV Repeater
N06B	224.040		Pasadena, CA
N6DD	447.650		Upland, CA
WA4HX	146.880		Lakeworth, FL (West Palm Beach Area)
AJ1R	145.230		Tampa, FL
AJ1R	443.625	103.5	Tampa, FL
WB9YCZ	147.390		Noblesville, IN (N. Indianapolis)
WB9YCZ	444.125		Noblesville, IN (N. Indianapolis)
N0PMZ	146.570	Simplex	Garden City, KS
KA0PQW	223.940		Chaska, MN (Minneapolis/St. Paul Area)
WB0BWL	145.210		Columbia Heights, MN (Minneapolis Area)
WA0RCR	1.860	160 Mtrs	Wentzville, MO
WA0ZOK	146.715		Horace, ND
	443.750		Horace, ND
KB7BY	1.2G	ATV Repeater	Las Vegas, NV
KD8XB	146.805		Lisbon, OH
W0KIE	88.5	FM	Tulsa, OK (Tulsa Cablevision)
VE3SF	145.230		Toronto, Ontario Canada

Compiled by: Marty Smith - WD5DZC & Bruce Paige - KB5ZRV

Check-in, questions, queries, comments during the net? Call us:

Marty Smith WD5DZC (713) 467-9870

Bruce Paige KB5ZRV (713) 933-0488

For Additions, Corrections, or Suggestions after the net?

Marty Smith WD5DZC (713) 467-9870 (Voice Message)

Bruce Paige KB5ZRV Internet: KB5ZRV@AMSAT.ORG or Packet: KB5ZRV@F6CNB

Please let us know if you are repeating our net so we can add your repeater to this list.

[The AMSAT News Service (ANS) would like to thank WD5DZC and KB5ZRV for this bulletin item.]

/EX

SB SAT @ AMSAT \$ANS-184.04
STS-65 SAREX READY FOR LAUNCH!

HR AMSAT NEWS SERVICE BULLETIN 184.04 FROM AMSAT HQ
SILVER SPRING, MD JULY 2, 1994
TO ALL RADIO AMATEURS BT
BID: \$ANS-184.04

STS-65 SAREX Mission Planned Launch of 08-JULY-94 Still On Schedule

The next Space Shuttle mission, with the Shuttle Amateur Radio Experiment (SAREX) payload on-board, is currently slated for launch this Friday July 8 at 16:43 UTC. Note that this launch time is 23 minutes earlier than what has been reported previously. The STS-65 Space Shuttle Columbia mission will carry Amateur Radio operators Don Thomas, KC5FVF and Bob Cabana (license pending) into a 28.5 degree inclination orbit for a 14 day mission. The primary objective of this flight is to perform microgravity research as part of the International Microgravity Laboratory (IML-02) mission.

Thirteen schools from the U.S., Japan, and Germany have scheduled ham radio contacts with the astronauts. Ten of these school group contacts will be performed using AMSAT's worldwide network of telebridge stations. The telebridge allows students to talk to the Astronauts through a remote ground station that is linked to the school through a phone bridge. The Goddard Amateur Radio Club, WA3NAN expects to retransmit some of these school contacts as part of their Shuttle Transmission activities. A limited number of schools who wish to "easedrop" on the STS-65 school group contacts via a listen only phone connection are encouraged to send e-mail to Frank Bauer, KA3HDO, with your request. Your request should include an explanation of how you are going to use this listen only dialog in your classroom setting. Mr. Bauer's e-mail address is ka3hdo@amsat.org.

A detailed fact sheet, follows:

STS-65 Shuttle Amateur Radio Experiment (SAREX)
Information Sheet

Mission: STS-65 Space Shuttle Columbia
International Microgravity Mission (IML-02)

Launch: July 8, 1994, 16:43 UTC

Orbit: 28.45 degree inclination

Mission Length: 14 days (Nominal)

Amateur

Radio

Operators: Donald A. Thomas, KC5FVF, and Robert D. Cabana, License Pending

Modes:FM Voice

Callsign: KC5FVF

Packet Radio

Callsign: W5RRR-1

Frequencies: All operations in split mode. Do not transmit on the downlink frequency.

Voice Freqs: Downlink: 145.55 MHz (Worldwide)

Uplinks : 144.91, 144.93, 144.95, 144.97, 144.99 MHz (Except Europe)
144.70, 144.75, 144.80 MHz (Europe only)

Note: The crew will not favor any specific uplink frequency, so your ability to work the crew will be the "luck of the draw"

Packet Freqs: Downlink: 145.55 MHz

Uplink : 144.49 MHz

Info:Goddard Amateur Radio Club, WA3NAN, Greenbelt Maryland,

SAREX Bulletins and Shuttle Retransmissions

3860 KHz, 7185 KHz, 14,295 KHz, 21,395 KHz, 28,650 KHz

and 147.45 MHz (FM)

ARRL Amateur Radio Station, W1AW, Newington, CT

SAREX News Bulletins 3990, 7290, 14,290, 18,160, 21,390, and 28,590 KHz

and 147.555 MHz (FM)

Also, bulletins available on internet, via AMSAT ANS, Compuserve, and your local PBSS.

School Group Participation: 13 school groups will participate in SAREX with pre-scheduled direct and telebridge contacts. These include 11 in the U.S., and one in Germany and one in Japan.

Prelaunch Keplerian Elements:

The following represents the Keplerian Elements for a 16:43 UTC launch time. Please note that this is 17 minutes earlier than what was originally published for the launch time. Updates will be provided later in the week. These Keps are provided by Gil Carman, WA5NOM at the Johnson Space Center ARC:

STS-65 OMS-2

1 99965U 94189.72594477 .00027158 30948-8 84442-4 0 19

2 99965 28.4683 7.4627 0003452 327.1219 272.8160 15.90322967 17

Satellite: STS-65

Catalog number: 00065

Epoch time: 94189.72594477 = (08-JUL-94 18:18:30.18 UTC)

Element set: 003

Inclination: 28.4683 deg

RA of node: 7.4627 deg

Space Shuttle Flight STS-65

Eccentricity: .0003452

Prelaunch Element set JSC-003

Arg of perigee: 327.1219 deg

Launch: 08-JUL-94 16:43:00 UTC

Mean anomaly: 272.8160 deg

Mean motion: 15.90322967 rev/day

Gil Carman, WA5NOM

Decay rate: 2.7158e-04 rev/day^2

NASA Johnson Space Center

Epoch rev: 2

Checksum: 17

[The AMSAT News Service (ANS) would like to thank the ARRL and the SAREX Working Group for this information.]

/EX

SB SAT @ AMSAT \$ANS-184.05

WEEKLY OSCAR STATUS REPORTS

HR AMSAT NEWS SERVICE BULLETIN 184.05 FROM AMSAT HQ

SILVER SPRING, MD JULY 2, 1994

TO ALL RADIO AMATEURS BT

BID: \$ANS-184.05

Weekly OSCAR Status Reports: 02-JUL-94

A0-13: Current Transponder Operating Schedule:

L QST *** A0-13 TRANSPONDER SCHEDULE *** 1994 May 07-Jul 11

Mode-B : MA 0 to MA 170 |

Mode-BS : MA 170 to MA 218 |

Mode-S : MA 218 to MA 220 |<- S beacon only

Mode-S : MA 220 to MA 230 |<- S transponder; B trsp. is OFF

Mode-BS : MA 230 to MA 250 | Alon/Alat 230/-5

Mode-B : MA 250 to MA 256 |

Omnis : MA 250 to MA 120 | Move to attitude 180/0, Jul 11

[G3RUH/DB20S/VK5AGR]

MIR: A Soyuz-TM 19 was launch last Friday July 1, 1994 at 12:25 UTC from Baikonur, Kazajstan to MIR space station, carrying a Russian cosmonaut, Yuri Malentchenko and Talgat Moussabaiev from Kazajstan. During the next 48 hours will be orbiting Earth and then Sunday they'll dock with MIR. During the docking maneuvers probably the amateur rig will turn off. [LW2DTZ]

D0-17: D0-17 still continues to transmit its voice message on a downlink

frequency of 145.825 MHz.

FO-20: The analog transponder provides excellent signals on the passband.
Listen for the CW beacon on 435.795 MHz. [WD0HHU]

The AMSAT NEWS Service (ANS) is looking for volunteers to contribute weekly OSCAR status reports. If you have a favorite OSCAR which you work on a regular basis and would like to contribute to this bulletin, please send your observations to WD0HHU at his CompuServe address of 70524,2272, on INTERNET at wd0hhu@amsat.org, or to his local packet BBS in the Denver, CO area, WD0HHU @ W0GVT. Also, if you find that the current set of orbital elements are not generating the correct AOS/LOS times at your QTH, PLEASE INCLUDE THAT INFORMATION AS WELL. The information you provide will be of value to all OSCAR enthusiasts.

/EX

Date: Sun, 3 Jul 1994 19:45:20 GMT
From: ihnp4.ucsd.edu!swrinde!howland.reston.ans.net!math.ohio-state.edu!
darwin.sura.net!osceola.cs.ucf.edu!fang!ulysses!ulysses.att.com!
wmb@network.ucsd.edu
Subject: DXCC Country List
To: info-hams@ucsd.edu

The current ARRL DXCC country list (07/01/94 version) follows.
Changes include the addition of Eritrea (E3), deletion of Penguin
Islands (ZS0) and Walvis Bay (ZS9), and prefix changes for Yemen
(4W back to 70), Malyj Vysotskij Island (4J1 -> R1MV), Franz
Josef Land (4K2 -> R1FJ) and R1AN as an additional prefix for
Antarctica and South Shetland Islands.

This list is available via

- occasional Usenet posting.
- ftp from ftp.cs.buffalo.edu (as pub/ham-radio/dxcc-k2di) and other Amateur Radio archive sites.
- email from the ARRL Information Service -- send a message containing the line "send dxcc-k2di" to info@arrl.org.

Much of the information was provided by Ron McConnell, W2IOL.
His detailed geographical listing is also available via ftp from
ftp.cs.buffalo.edu, and from info@arrl.org ("send dxcc-w2iol-inst",
"send dxcc-w2iol-a-p", "send dxcc-w2iol-q-z").

The colon-separated fields are:

1. primary amateur prefix
 - "*" suffix for deleted countries

- "@" suffix for likely new countries
- 2. country name
- 3. continent(s)
- 4. ITU zone(s)
- 5. CQ zone(s)
- 6. time zone (hours from UTC)
- 7. latitude
- 8. longitude
- 9. ITU prefix allocation(s) ("~" suffix for unofficial)
- 10. other amateur prefixes

Please mail corrections and suggestions to me.

Bill Brelsford, K2DI
 AT&T, Basking Ridge NJ
 wmb@joplin.att.com
 07/01/94

 :(ICAO):::::::4Y:
 :(WMO):::::::C7:
 1A:SMO Malta:Eu:28:15:+1:42N:13E:1A~:
 1M*:Minerva Reef:Oc:62:32:-12:24S:179W::
 1S:Spratly Is:As:50:26:+7:9N:112E:1S~:9M0
 3A:Monaco:Eu:27:14:+1:44N:8E:3A:
 3B6:Agalega & St Brandon:Af:53:39:+4:10S:57E::3B7
 3B8:Mauritius:Af:53:39:+4:20S:58E:3B:
 3B9:Rodriguez Is:Af:53:39:+4:20S:63E::
 3C:Equatorial Guinea:Af:47:36:-1:4N:9E:3C:
 3C0:Pagalu:Af:52:36:-1:1S:6E::
 3D2:Conway Reef:Oc:56:32:+12:22S:175E::
 3D2:Fiji:Oc:56:32:+12:18S:178E:3DN-3DZ:
 3D2:Rotuma:Oc:56:32:+12:13S:177E::
 3DA:Swaziland:Af:57:38:+2:26S:31E:3DA-3DM:3D6
 3V:Tunisia:Af:37:33:+1:37N:10E:3V,TS:
 3W:Vietnam:As:49:26:+7:11N:107E:3W,XV:
 3X:Guinea:Af:46:35:+0:10N:14W:3X:
 3Y:Bouvet:Af:67:38:+0:54S:3E::
 3Y:Peter I:An:72:12:-6:69S:91W::
 4J:Azerbaijan:As:29:21:+4:40N:50E:4J-4K:UD
 4L:Georgia:As:29:21:+4:42N:45E:4L:UF
 4S:Sri Lanka:As:41:22:+5:57N:80E:4P-4S:
 4U:ITU Geneva:Eu:28:14:+1:46N:6E::
 4U:UN HQ:NA:08:05:-5:41N:74W:4U:
 4W*:Yemen Arab Rep:As:39:21:+3:15N:44E::
 4X:Israel:As:39:20:+2:32N:35E:4X,4Z:
 5A:Libya:Af:38:34:+2:33N:13E:5A:
 5B:Cyprus:As:39:20:+3:35N:33E:5B,C4,H2,P3:
 5H:Tanzania:Af:53:37:+3:7S:39E:5H-5I:

5N:Nigeria:Af:46:35:+1:6N:3E:5N-50:
5R:Madagascar:Af:53:39:+3:19S:48E:5R-5S,6X:
5T:Mauritania:Af:46:35:-1:18N:16W:5T:
5U:Niger:Af:46:35:+1:14N:2W:5U:
5V:Togo:Af:46:35:+0:6N:1E:5V:
5W:Western Samoa:Oc:62:32:-11:14S:172W:5W:
5X:Uganda:Af:48:37:+3:0N:33E:5X:
5Z:Kenya:Af:48:37:+3:2S:37E:5Y-5Z:
6W:Senegal:Af:46:35:+0:15N:18W:6V-6W:
6Y:Jamaica:NA:11:08:-5:18N:77W:6Y:
70:Yemen:As:39:21:+3:13N:45E:70:
70*:PDR Yemen:As:39:21:+3:13N:45E::
7P:Lesotho:Af:57:38:+2:29S:27E:7P:
7Q:Malawi:Af:53:37:+2:14S:34E:7Q:
7X:Algeria:Af:37:33:+0:37N:3E:7R,7T-7Y:
8P:Barbados:NA:11:08:-4:13N:60W:8P:
8Q:Maldives:As,Af:41:22:+5:4N:73E:8Q:
8R:Guyana:SA:12:09:-3.75:6N:58W:8R:
8Z4*:S Arabia/Iraq NZ:As:39:21:+3:29N:46E::
8Z5*:Kuwait/S Arabia NZ:As:39:21:+3:29N:48E::9K3
9A:Croatia:Eu:28:15:+1:45N:16E:9A:
9G:Ghana:Af:46:35:+0:5N:0W:9G:
9H:Malta:Eu:28:15:+1:36N:15E:9H:
9J:Zambia:Af:53:36:+2:15S:28E:9I-9J:
9K:Kuwait:As:39:21:+3:29N:48E:9K:
9L:Sierra Leone:Af:46:35:+0:9N:13W:9L:
9M2:Malaysia:As:54:28:+7.5:3N:102E:9M,9W:9M4
9M6:East Malaysia:Oc:54:28:+8:2N:110E::9M8
9N:Nepal:As:42:22:+5.75:28N:85E:9N:
9Q:Zaire:Af:52:36:+1:4S:15E:9O-9T:
9S4*:Saar:Eu:28:14:+1:49N:7E::
9U:Burundi:Af:52:36:+3:3S:29E:9U:
9U5*:Ruanda-Urundi:Af:52:36:+3:3S:30E::
9V:Singapore:As:54:28:+7.5:1N:104E:9V,S6:
9X:Rwanda:Af:52:36:+3:2S:30E:9X:
9Y:Trinidad & Tobago:SA:11:09:-4:11N:62W:9Y-9Z:
A1*:Abu Ail, Jabal at Tair:As:39:21:+2:14N:43E::J2/A
A2:Botswana:Af:57:38:+2:25S:26E:8O,A2:
A3:Tonga:Oc:62:32:+13:21S:175W:A3:
A4:Oman:As:39:21:+4:24N:59E:A4:
A5:Bhutan:As:41:22:+5.5:27N:90E:A5:
A6:United Arab Emirates:As:39:21:+4:24N:54E:A6:
A7:Qatar:As:39:21:+4:25N:52E:A7:
A9:Bahrain:As:39:21:+4:26N:51E:A9:
AC3*:Sikkim:As:41:22:+5.5:27N:89E::
AC4*:Tibet:As:41:23:+6:30N:92E::
AP:Pakistan:As:41:21:+5:34N:73E:6P-6S,AP-AS:
BV:Taiwan:As:44:24:+8:25N:122E::

BY:China:As:33,42-44:23,24:+8:40N:116E:3H-3U,BA-BZ,XS:
C2:Nauru:Oc:65:31:+11.5:0S:167E:C2:
C3:Andorra:Eu:27:14:+1:43N:2E:C3:
C5:Gambia:Af:46:35:+0:13N:17W:C5:
C6:Bahamas:NA:11:08:-5:25N:77W:C6:
C9:Mozambique:Af:53:37:+2:26S:33E:C8-C9:
C9*:Manchuria:As:33:24:+8.5:46N:127E::
CE:Chile:SA:14,16:12:-4:33S:71W:3G,CA-CE,XQ-XR:
CE0X:San Felix:SA:14:12:-5:26S:80W::
CE0Y:Easter Is:SA:63:12:-7:27S:109W::
CE0Z:Juan Fernandez:SA:14:12:-4:34S:79W::
CE9:Antarctica:An:67,69-74:12,13,29,30,32,38,39:+0:90S:0W::3Y,4K1,8J1,AT0,DP0,FT_Y
,KC4,LU_Z,OR4,R1AN,VK0,VP8,ZL5,ZS7,ZX0
CN:Morocco:Af:37:33:+0:34N:7W:5C-5G,CN:
CN2*:Tangier:Af:37:33:+0:36N:8W::
CO:Cuba:NA:11:08:-5:23N:82W:CL-CM,CO,T4:
CP:Bolivia:SA:12,14:10:-4:17S:68W:CP:
CR8*:Damao, Diu:As:41:22:+5.5:21N:71E::
CR8*:Goa:As:41:22:+5.5:16N:74E::
CR8*:Portuguese Timor:Oc:54:28:+8:9S:126E::
CT:Portugal:Eu:37:14:+1:39N:9W:CQ-CU,XX:
CT3:Madeira Is:Af:36:33:-1:33N:17W::
CU:Azores:Eu:36:14:-1:38N:26W::CT2
CX:Uruguay:SA:14:13:-3:35S:56W:CV-CX:
CY0:Sable Is:NA:09:05:-5:44N:60W::
CY9:St Paul Is:NA:09:05:-5:47N:60W::
D2:Angola:Af:52:36:+1:9S:13E:D2-D3:
D4:Cape Verde:Af:46:35:-2:15N:23W:D4:
D6:Comoros:Af:53:39:+3:12S:43E:D6:
DL:Germany:Eu:28:14:+1:52N:7E:DA-DR,Y2-Y9:
DL*:Germany:Eu:28:14:+1:52N:7E::
DU:Philippines:Oc:50:27:+8:15N:121E:4D-4I,DU-DZ:
E3:Eritrea:Af:48:37:+3:15N:39E:E3:ET2
EA:Spain:Eu:37:14:+1:40N:4W:AM-AO,EA-EH:
EA6:Balearic Is:Eu:37:14:+1:38N:3E::
EA8:Canary Is:Af:36:33:+0:28N:15W::
EA9:Ceuta & Melilla:Af:37:33:+1:36N:5W::
EA9*:Ifni:Af:37:33:+0:29N:10W::
EI:Ireland:Eu:27:14:+0:53N:6W:EI-EJ:
EK:Armenia:As:29:21:+4:40N:45E:EK:UG
EL:Liberia:Af:46:35:-0.75:6N:11W:5L-5M,6Z,A8,D5,EL:
EP:Iran:As:40:21:+3.5:36N:51E:9B-9D,EP-EQ:
ER:Moldova:Eu:29:16:+3:47N:29E:ER:UO
ES:Estonia:Eu:29:15:+2:59N:25E:ES:UR
ET:Ethiopia:Af:48:37:+3:9N:39E:9E-9F,ET:
EV:Belarus:Eu:29:16:+2:54N:28E:EU-EW:UC
EX:Kyrgyzstan:As:30,31:17:+6:43N:75E:EX:UM
EY:Tajikistan:As:30:17:+6:39N:69E:EY:UJ

EZ:Turkmenistan:As:30:17:+5:38N:58E:EZ:UH
F:France:Eu:27:14:+1:49N:2E:FA-FZ,HW-HY,TH,TK,TM,TO-TQ,TV-TX:
FF*:French W Africa:Af:46:35:+0:15N:18W::
FG:Guadeloupe:NA:11:08:-4:16N:62W::
FH:Mayotte:Af:53:39:+3:13S:45E::
FH*:Comoros:Af:53:39:+3:12S:43E::FB8
FI8*:Fr Indo China:As:49:26:+7:11N:107E::
FK:New Caledonia:Oc:56:32:+11:22S:167E::
FM:Martinique:NA:11:08:-4:15N:61W::
FN8*:French India:As:41:22:+5.5:12N:80E::
FO:French Polynesia:Oc:63:32:-10:18S:150W::
FO0:Clipperton Is:NA:10:07:-7:10N:109W::
FP:St Pierre & Miquelon:NA:09:05:-4:47N:56W::
FQ8*:Fr Equatorial Africa:Af:47,52:36:+1:5N:18E::
FR:Glorioso Is:Af:53:39:+3:12S:47E::
FR:Juan de Nova, Europa:Af:53:39:+3:17N:43E::
FR:Reunion:Af:53:39:+4:21S:55E::
FR:Tromelin:Af:53:39:+4:16S:54E::
FS:St Martin:NA:11:08:-4:18N:63W::FJ
FT_W:Crozet:Af:68:39:+3:46S:52E::
FT_X:Kerguelen Is:Af:68:39:+5:50S:70E::
FT_Z:Amsterdam & St Paul Is:Af:68:39:+5:38S:78E::
FW:Wallis & Futuna Is:Oc:62:32:-10.5:14S:172W::
FY:French Guiana:SA:12:09:-4:5N:52W::
G:England:Eu:27:14:+0:52N:0W:2A-2Z,GA-GZ,MA-MZ,VP-VS,ZB-ZJ,ZN-ZO,ZQ:2E
GD:Isle of Man:Eu:27:14:+0:54N:4W::2D
GI:No Ireland:Eu:27:14:+0:55N:6W::2I
GJ:Jersey:Eu:27:14:+0:49N:2W::2J
GM:Scotland:Eu:27:14:+0:57N:2W::2M
GU:Guernsey:Eu:27:14:+0:49N:3W::2U
GW:Wales:Eu:27:14:+0:52N:3W::2W
H4:Solomon Is:Oc:51:28:+11:9S:160E:H4:
HA:Hungary:Eu:28:15:+1:48N:19E:HA,HG:
HB:Switzerland:Eu:28:14:+1:47N:7E:HB,HE:
HB0:Liechtenstein:Eu:28:14:+1:47N:10E::
HC:Ecuador:SA:12:10:-5:0N:79W:HC-HD:
HC8:Galapagos Is:SA:12:10:-5:1S:90W::
HH:Haiti:NA:11:08:-5:19N:72W:4V,HH:
HI:Dominican Rep:NA:11:08:-5:18N:70W:HI:
HK:Colombia:SA:12:09:-5:5N:74W:5J-5K,HJ-HK:
HK0:Malpelo Is:SA:12:09:-5:4N:82W::
HK0:San Andres & Providencia:NA:11:07:-6:13N:82W::
HK0*:Bajo Nuevo:NA:11:08:-5:16N:79W::
HK0*:Serrana Bnk, Roncador Cay:NA:11:07:-5:14N:80W::KP3,KS4
HL:So Korea:As:44:25:+9:38N:127E:6K-6N,DS-DT,D7-D9,HL:
HP:Panama:NA:11:07:-5:9N:80W:3E-3F,HO-HP,H3,H8-H9:
HR:Honduras:NA:11:07:-6:14N:87W:HQ-HR:
HS:Thailand:As:49:26:+6:14N:101E:E2,HS:

HV:Vatican:Eu:28:15:+1:42N:13E:HV:
HZ:Saudi Arabia:As:39:21:+3:25N:47E:8Z,HZ,7Z:
I:Italy:Eu:28:15:+1:42N:12E:IA-IZ:
I1*:Trieste:Eu:28:15:+1:46N:14E::
I5*:Ital Somaliland:Af:48:37:+3:2N:46E::
IS:Sardinia:Eu:28:15:+1:39N:9E::
J2:Djibouti:Af:48:37:+3:12N:43E:J2:
J3:Grenada:NA:11:08:-4:12N:62W:J3:
J5:Guinea-Bissau:Af:46:35:-1:12N:16W:J5:
J6:St Lucia:NA:11:08:-4:14N:61W:J6:
J7:Dominica:NA:11:08:-4:15N:61W:J7:
J8:St Vincent:NA:11:08:-4:13N:61W:J8:
JA:Japan:As:45:25:+9:36N:140E:7J-7N,8J-8N,JA-JS:
JD:Minami Torishima:Oc:45/90:27:+10:24N:154E::
JD:Ogasawara:As:45:27:+10:28N:142E::
JD1*:Okino Tori-shima:As:45:27:+10:30N:140E::7J1
JT:Mongolia:As:32,33:23:+7.5:48N:107E:JT-JV:
JW:Svalbard:Eu:18:40:+1:78N:16E::
JX:Jan Mayen:Eu:18:40:-1:71N:9W::
JY:Jordan:As:39:20:+2:32N:36E:JY:
JZ0*:Neth New Guinea:Oc:51:28:+10:10S:147E::
K:United States:NA:06-08:03-05:-5:39N:77W:AA-AL,KA-KZ,NA-NZ,WA-WZ:
KC6:Belau:Oc:64:27:+10:7N:134E::
KG4:Guantanamo Bay:NA:11:08:-5:20N:75W::
KH0:Mariana Is:Oc:64:27:+10:15N:146E::
KH1:Baker & Howland Is:Oc:61:31:-12:0N:176W::
KH2:Guam:Oc:64:27:+10:13N:145E::
KH3:Johnston Is:Oc:61:31:-11:17N:170W::
KH4:Midway Is:Oc:61:31:-11:28N:177W::
KH5:Palmyra, Jarvis Is:Oc:61,62:31:-11:6N:162W::
KH5K:Kingman Reef:Oc:61:31:-11:6N:162W::
KH6:Hawaii:Oc:61:31:-10:21N:158W::
KH7:Kure Is:Oc:61:31:-11:29N:178W::
KH8:Am Samoa:Oc:62:32:-11:14S:171W::
KH9:Wake Is:Oc:65:31:+12:19N:167E::
KL7:Alaska:NA:01,02:01:-8:58N:134W::
KP1:Navassa Is:NA:11:08:-5:18N:75W::
KP2:Virgin Is:NA:11:08:-4:18N:65W::
KP4:Puerto Rico:NA:11:08:-4:18N:66W::
KP5:Desecheo Is:NA:11:08:-4:18N:68W::
KR6*:Okinawa (Ryukyu):As:45:25:+8:26N:128E::KR8,JR6,KA6
KS4*:Swan Is:NA:11:07:-6:17N:84W::
KZ5*:Canal Zone:NA:11:07:-5:9N:80W::
LA:Norway:Eu:18:14:+1:60N:11E:3Y,JW-JX,LA-LN:
LU:Argentina:SA:14,16:13:-3:35S:58W:AY-AZ,LO-LW,L2-L9:
LX:Luxembourg:Eu:27:14:+1:50N:6E:LX:
LY:Lithuania:Eu:29:15:+2:55N:25E:LY:UP
LZ:Bulgaria:Eu:28:20:+2:43N:23E:LZ:

OA:Peru:SA:12:10:-5:12S:78W:4T,OA-OC:
OD:Lebanon:As:39:20:+2:34N:36E:OD:
OE:Austria:Eu:28:15:+1:48N:16E:OE:
OH:Finland:Eu:18:15:+2:60N:25E:OF-OJ:
OH0:Aland Is:Eu:18:15:+2:60N:20E::
OJ0:Market Reef:Eu:18:15:+2:60N:19E::
OK:Czech Republic:Eu:28:15:+1:50N:16E:OK-OL:
OK*:Czechoslovakia:Eu:28:15:+1:50N:15E::
OM:Slovakia:Eu:28:15:+1:49N:20E:OM:
ON:Belgium:Eu:27:14:+1:51N:4E:ON-OT:
OX:Greenland:NA:05,75:40:-3:64N:52W::XP
OY:Faroe Is:Eu:18:14:+0:62N:7W::
OZ:Denmark:Eu:18:14:+1:56N:13E:5P-5Q,OU-OZ,XP:
P2:Papua New Guinea:Oc:51:28:+10:10S:147E:P2:
P2*:Papua Terr:Oc:51:28:+10:10S:147E::VK9
P2*:Terr New Guinea:Oc:51:28:+10:10S:147E::VK9
P4:Aruba:SA:11:09:-4:13N:70W:P4:
P5:No Korea:As:44:25:+9:39N:126E:HM,P5-P9:
PA:Netherlands:Eu:27:14:+1:52N:5E:PA-PI:
PJ2:Neth Antilles:SA:11:09:-4:12N:69W:PJ:PJ4,PJ9
PJ5:St Maarten, Saba, St Eus:NA:11:08:-4:18N:63W::PJ6-8
PK1*:Java:Oc:54:28:+7.5:6S:107E::PK2-3
PK4*:Sumatra:Oc:54:28:+7:1S:100E::
PK5*:Netherlands Borneo:Oc:54:28:+8:3S:115E::
PK6*:Celebe & Molucca Is:Oc:54:28:+8:5S:119E::
PY:Brazil:SA:12,13,15:11:-3:16S:48W:PP-PY,ZV-ZZ:
PY0F:Fernando de Noronha:SA:13:11:-2:4S:32W::
PY0P:St Peter & St Paul Rocks:SA:13:11:-2:0N:29W::
PY0T:Trindade & Martin Vaz Is:SA:15:11:-2:21S:29W::
PZ:Surinam:SA:12:09:-3.5:6N:55W:PZ:
R1FJ:Franz Josef Land:Eu:75:40:+3:81N:48E::4K2
R1MV:Malyj Vysotskij Is:Eu:29:16:+3:61N:29E::4J1
S0:Western Sahara:Af:37:33:+0:27N:13W:S0~:
S2:Bangladesh:As:41:22:+6:24N:90E:S2-S3:
S5:Slovenia:Eu:28:15:+1:46N:14E:S5:
S7:Seychelles:Af:53:39:+4:5S:55E:S7:
S9:Sao Tome & Principe:Af:47:36:+0:0N:7E:S9:
SM:Sweden:Eu:18:14:+1:59N:18E:7S,8S,SA-SM:
SP:Poland:Eu:28:15:+1:52N:21E:3Z,HF,SN-SR:
ST:Sudan:Af:48:34:+2:16N:33E:6T-6U,SSN-SSZ,ST:
ST0:Southern Sudan:Af:48:34:+2:5N:32E::
SU:Egypt:Af,As:38:34:+2:31N:31E:6A-6B,SSA-SSM,SU:
SV:Greece:Eu:28:20:+2:38N:24E:J4,SV-SZ:
SV5:Dodecanese:Eu:28:20:+2:36N:28E::
SV9:Crete:Eu:28:20:+2:36N:24E::
SY:Mt Athos:Eu:28:20:+2:40N:24E::SV1/A
T2:Tuvalu:Oc:65:31:+12:9S:179E:T2:
T30:West Kiribati:Oc:65:31:+12:1S:173E::

T31:Central Kiribati:0c:62:31:+12:4S:171W:T3:
T32:East Kiribati:0c:61,63:31:+12:2N:158W::
T33:Banaba:0c:65:31:+11.5:1S:170E::
T5:Somalia:Af:48:37:+3:2N:46E:60,T5:
T7:San Marino:Eu:28:15:+1:44N:12E:T7:
T9:Bosnia-Herzegovina:Eu:28:15:+1:44N:18E:T9:4N4
TA:Turkey:As, Eu:39:20:+2:40N:33E:TA-TC, YM:
TF:Iceland:Eu:17:40:+0:64N:22W:TF:
TG:Guatemala:NA:11:07:-6:16N:92W:TD, TG:
TI:Costa Rica:NA:11:07:-6:10N:84W:TE, TI:
TI9:Cocos Is:NA:11:07:-6:6N:87W::
TJ:Cameroon:Af:47:36:+1:4N:12E:TJ:
TK:Corsica:Eu:28:15:+1:42N:9E::
TL:Central African Rep:Af:47:36:+1:5N:19E:TL:
TN:Congo:Af:52:36:+1:4S:15E:TN:
TR:Gabon:Af:52:36:+1:1N:10E:TR:
TT:Chad:Af:47:36:+1:12N:15E:TT:
TU:Ivory Coast:Af:46:35:+0:5N:4W:TU:
TY:Benin:Af:46:35:+0:6N:3E:TY:
TZ:Mali:Af:46:35:+0:13N:8W:TZ:
UA:Russia:Eu:19,20,29,30:16:+3:56N:37E:RA-RZ, UA-UI:
UA2:Kaliningrad:Eu:29:15:+2:55N:21E::
UA9:Russia (Asiatic):As:20-26,30-35,75:16-19,23:+7:52N:104E::UA0
UK:Uzbekistan:As:30:17:+6:41N:69E:UJ-UM:UI
UN:Kazakhstan:As:29-31:17:+5.5:43N:77E:UN-UQ:UL
UN1*:Karelo-Finnish Rep:Eu:19:16:+3:64N:32E::
UR:Ukraine:Eu:29:16:+2:50N:30E:EM-EO, UR-UZ:UB
V2:Antigua, Barbuda:NA:11:08:-4:17N:62W:V2:
V3:Belize:NA:11:07:-5.5:17N:89W:V3:
V4:St Kitts, Nevis:NA:11:08:-4:17N:63W:V4:
V5:Namibia:Af:57:38:+2:22S:17E:V5:
V6:Micronesia:0c:65:27:+11:7N:158E:V6:KC6
V7:Marshall Is:0c:65:31:+12:7N:171E:V7:KX6
V8:Brunei:0c:54:28:+8:5N:115E:V8:
VE:Canada:NA:02-04,09,75:01-05:-5:45N:76W:CF-CK, CY-CZ, VA-VG, VO, VX-VY, XJ-X0:
VK:Australia:0c:55,58,59:29,30:+10:35S:149E:AX, VH-VN, VZ:
VK0:Heard Is:Af:68:39:+5:53S:73E::
VK0:Macquarie Is:0c:60:30:+11:54S:159E::
VK9C:Cocos-Keeling Is:0c:54:29:+6.5:12S:97E::VK9Y
VK9L:Lord Howe Is:0c:60:30:+10:31S:159E::
VK9M:Mellish Reef:0c:56:30:+10:17S:156E::VK9Z
VK9N:Norfolk Is:0c:60:32:+11.5:29S:168E::
VK9W:Willis Is:0c:55:30:+10:16S:150E::VK9Z
VK9X:Christmas Is:0c:54:29:+7:10S:106E::
VO*:Newfoundland, Labrador:NA:09:02,05:-3.5:48N:53W::
VP2E:Anguilla:NA:11:08:-4:18N:63W::
VP2M:Montserrat:NA:11:08:-4:17N:62W::
VP2V:Br Virgin Is:NA:11:08:-4:18N:65W::

VP5:Turks & Caicos Is:NA:11:08:-5:22N:72W::
VP8:Falkland Is:SA:16:13:-4:52S:58W::
VP8:So Georgia Is:SA:73:13:-1.5:54S:37W::LU_Z
VP8:So Orkney Is:SA:73:13:-3:61S:45W::LU_Z
VP8:So Sandwich Is:SA:73:13:-3:59S:27W::LU_Z
VP8:So Shetland Is:SA:73:13:-4:62S:59W::LU_Z,CE9,HF0,R1AN,4K1
VP9:Bermuda:NA:11:05:-4:32N:65W::
VQ1*:Zanzibar:Af:53:37:+3:7S:39E::5H1
VQ6*:British Somaliland:Af:48:37:+3:2N:46E::
VQ9:Chagos:Af:41:39:+5:7S:72E::
VQ9*:Aldabra:Af:53:39:+4:9S:46E::
VQ9*:Desroches:Af:53:39:+4:6S:55E::
VQ9*:Farquhar:Af:53:39:+4:10S:51E::
VR2:Hong Kong:As:44:24:+8:22N:114E::VS6
VR6:Pitcairn Is:Oc:63:32:-8.5:25S:130W::
VS2*:Malaya:As:54:28:+7.5:3N:102E::9M2
VS4*:Sarawak:Oc:54:28:+8:2N:110E::
VS9H*:Kuria Muria Is:As:39:21:+4:18N:56E::
VS9K*:Kamuran Is:As:39:21:+3:15N:43E::70
VU:India:As:41:22:+5.5:29N:77E:8T-8Y,AT-AW,VT-VW:
VU7:Andaman & Nicobar Is:As:49:26:+5.5:12N:93E::
VU7:Laccadive Is:As:41:22:+5.5:11N:73E::
XE:Mexico:NA:10:06:-6:20N:99W:4A-4C,6D-6J,XA-XI:
XF4:Revilla Gigedo:NA:10:06:-7:18N:113W::
XT:Burkina Faso:Af:46:35:+0:12N:2W:XT:
XU:Cambodia:As:49:26:+8:12N:105E:XU:
XW:Laos:As:49:26:+7:20N:102E:XW:
XX9:Macao:As:44:24:+8:22N:114E::
XZ:Myanmar (Burma):As:49:26:+6.5:17N:96E:XY-XZ:
Y2*:East Germany:Eu:28:14:+1:53N:13E::Y3-Y9
YA:Afghanistan:As:40:21:+4.5:35N:69E:T6,YA:
YB:Indonesia:Oc:51,54:28:+7.5:6S:107E:7A-7I,8A-8I,JZ,PK-PO,YB-YH:
YI:Iraq:As:39:21:+3:32N:45E:HN,YI:
YJ:Vanuatu:Oc:56:32:+11:18S:168E:YJ:
YK:Syria:As:39:20:+2:34N:36E:6C,YK:
YL:Latvia:Eu:29:15:+2:57N:24E:YL:UQ
YN:Nicaragua:NA:11:07:-6:12N:87W:HT,H6-H7,YN:
Y0:Romania:Eu:28:20:+2:45N:26E:Y0-YR:
YS:El Salvador:NA:11:07:-6:14N:89W:HU,YS:
YU:Yugoslavia:Eu:28:15:+1:45N:20E:4N-4O,YT-YU,YZ:
YV:Venezuela:SA:12:09:-4:10N:67W:4M,YV-YY:
YV0:Aves Is:NA:11:08:-4:16N:64W::
Z2:Zimbabwe:Af:53:38:+2:18S:31E:Z2:
Z3:Macedonia:Eu:28:15:+1:42N:21E:Z3:4N5
ZA:Albania:Eu:28:15:+1:41N:20E:ZA:
ZB:Gibraltar:Eu:37:14:+1:37N:5W::
ZC:Cyprus SBA:As:39:20:+2:36N:33E::
ZC5*:Br No Borneo:Oc:54:28:+8:6N:116E::

ZC6*:Palestine:As:39:20:+2:32N:35E::4X1
ZD4*:Gold Coast, Togoland:Af:46:35:+0:5N:0W::
ZD7:St Helena:Af:66:36:+0:16S:6W::
ZD8:Ascension Is:Af:66:36:+0:8S:14W::
ZD9:Tristan da Cunha & Gough Is:Af:66:38:+0:37S:12W::
ZF:Cayman Is:NA:11:08:-5:19N:81W::
ZK1:No Cook Is:Oc:62,63:32:-10.5:10S:161W::
ZK1:So Cook Is:Oc:63:32:-10.5:22S:158W::
ZK2:Niue:Oc:62:32:-11:19S:170W::
ZK3:Tokelau Is:Oc:62:31:-11:9S:171W::
ZL:New Zealand:Oc:60:32:+12:41S:175E:ZK-ZM:
ZL7:Chatham Is:Oc:60:32:+12.75:44S:177W::
ZL8:Kermadec Is:Oc:60:32:+12:29S:178W::
ZL9:Auckland, Campbell Is:Oc:60:32:+12:51S:166E::
ZP:Paraguay:SA:14:11:-4:26S:57W:ZP:
ZS:So Africa:Af:57:38:+2:26S:28E:H5~,S4~,S8~,V9~,ZR-ZU:
ZS0*:Penguin Is:Af:57:38:+2:27S:15E::
ZS8:Pr Edward & Marion Is:Af:57:38:+3:47S:38E::
ZS9*:Walvis Bay:Af:57:38:+2:23S:15E::
~~*:Blenheim Reef:Af:41:39:+5:7S:72E::
~~*:Geyser Reef:Af:53:39:+3:12S:46E::

Date: 3 Jul 1994 20:18:26 GMT
From: pacbell.com!ohlone.kn.PacBell.COM!jlundgre@ames.arpa
Subject: FCC
To: info-hams@ucsd.edu

CTC EXPORT (ctcexport@aol.com) wrote:
: Does anyone know the answer.

: I want to make a RF link (about one milliwatt) probable range is 150
: feet.

: Does this fall into FCC regs or not. It would be used commercially in
: large office buildings or factories.
: Thank you.

This is the same thing that walkie talkies sold by Radio Shack do. Just
about any small RF transmitter working on the FM band can get a couple
hundred feet or so, and if the receiver has a good antenna, even farther
than that.

I built this FM broadcast band transmitter so I could listen to my VCR all
thru the house with my walkman. Works great. It goes outside for at
least a hundred feet.

Depending on the bandwidth, you could use something like a Radio Shack wireless baby monitor, or a cordless telephone.

Part 15 of the FCC rules & regs have info on this subject.

Post this question to the newsgroups rec.radio.amateur.equipment or .misc, or alt.radio.pirate, or similar newsgroup, and you might get some stimulating answers.

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@      John Lundgren - Elec Tech - Info Tech Svcs          @ Standard  @
@      Rancho Santiago Community College District          @ disclaim- @
@      17th St. at Bristol \ Santa Ana, CA 92706          @ ers apply.@
@      Voice (714) JOHN GAB \ FAX (714) JOHN FRY          @           @
@      jlundgre@pop.rancho.cc.ca.us\jlundgr@eis.calstate.edu @           @
@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@

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Date: 3 Jul 1994 15:21:03 -0400
From: newstf01.cr1.aol.com!search01.news.aol.com!not-for-mail@uunet.uu.net
Subject: IC229H
To: info-hams@ucsd.edu

In article <48055@mindlink.bc.ca>, Sam_Oben@mindlink.bc.ca (Sam Oben) writes:

I have had a 229H for about 6 months and have never had a problem. Can you give me more information? Is the radio hooked up directly to the battery? How long has it been having this problem? I'll try to be of any help I can.

Warren Whitby

73s de KE4ITL

Date: Sun, 03 Jul 94 15:56:40 GMT
From: spcuna!starcomm.overleaf.com!n2ayj!n2ayj@uunet.uu.net
Subject: Temp. Conversion Chart: F & C?
To: info-hams@ucsd.edu

In article <hamilton.773032986@BIX.com> hamilton@BIX.com writes:

>

>While we're on the topic of conversions, can someone help me

>out with some others that have been really boggling me?

>

> MHz to KHz

A kHz is 1/1000 of a MHz

> Feet to Inches

An inch is 1/12 of a foot

> Dollars to Cents

A dollar is 1/20 oz. of gold .999 fine, except Federal Reserve Notes may be used to represent a dollar, but since, regardless of denomination, each note costs about \$0.015 to produce, the relationship between dollars and cents varies with the amount of currency you're carrying at any given time, unless, of course, you made LESS than you made in the last reporting period, in which case you need to complete Form 3811-g, and attach your last three (3) returns, including the name, age, current address, and Social Security numbers of your current spouse, intended or former spouses, the spouses of others after whom you lust, their spouse or former spouses, any children of which you are aware, any pets, small domesticated animals (under 200 pounds), or vermin which quarter in your residence and have not been successfully eliminated, and which you may be eligible to claim (see Pub. 9345, "Determining Dependency of Lesser Creatures"). You may NOT report...

>Also, what is that stuff that collects in your belly button

>called?

That stuff that collects in your belly button.

--

Stan Olochwoszcz, N2AYJ

n2ayj@n2ayj.overleaf.com

Tax, title, dealer prep, and destination charges not included.

Date: Sun, 3 Jul 1994 18:29:30 GMT

From: ihnp4.ucsd.edu!agate!spool.mu.edu!torn!nott!cunews!freenet.carleton.ca!

FreeNet.Carleton.CA!as041@network.ucsd.edu

To: info-hams@ucsd.edu

References <FAUNT.94Jul13091305@netcom6.netcom.com>,

<FAUNT.94Jul1181923@netcom4.netcom.com>, <CsALB5.G2n@srngenprp.sr.hp.com>41

Reply-To : as041@FreeNet.Carleton.CA (Robin Ludlow)

Subject : Re: CW - THE ONLY MODE!

In a previous article, faunt@netcom6.netcom.com (Doug Faunt N6TQS 510-655-8604) says:

>I'd love to be able to do head copy, since the writing takes a
>significant amount of energy and time, however, I can't get the sense
>of what's coming across. I can't get the sense of letters spelled out
>to me, either. I have to remember them and mentally picture them.
>So, head copying, although I can get the characters a little faster
>that way, even now, doesn't seem to work for me. I am visually oriented.

Doug....

I found when I was learning CW, it was like anything else...practice,
practice, practice!

You reach discouraging plateaus and then, suddenly, you *click* into a
higher level of ability. Learning CW really is like learning another
language and it is only constant exposure and usage that will give you the
facility you want.

There is no magic wand. You just have to work at it.

In case you have not already heard.....put the key away when you are
learning CW! You will not learn CW by sending it and you will certainly
not learn to send good CW and have a good *fist* unless you know what good
CW sounds like.

Just keep at it, copy as much as you can as often as you can, even reaching
for faster speeds than you think you can copy. It WILL come and you will
be proud of your new skill!

Before you know it, you will be leaning back with your feet on the desk
copying 20, 30 or more wpm in your head!

Good luck and 73,

Rob --... ..--

--

Robin Ludlow, VE3YE
Orleans, Ontario, Canada
as041@freenet.carleton.ca

End of Info-Hams Digest V94 #738
